200 XX	CRF Errors Corrected by the STIC Systems Branch
Serial I	Number: 09/778,516A CRF Processing Date: 5/9/2002 Edited by: CRF Processing Date: 5/9/2002
	Changed a file from non-ASCII to ASCII TERED Verified by: (STIC start
	Changed the margins in cases where the sequence text was wrapped down to the next line.
	Edited a format error in the Current Application Data section, specifically:
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included:
	Deleted extra, invalid, headings used by an applicant, specifically:
	Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as
	Inserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
	Edited identifiers where upper case is used but lower case is required, or vice versa.
	Corrected an error in the Number of Sequences field, specifically:
	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
	Deleted <i>ending</i> stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:
\exists	Other: userfed had return after Seg. 2

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



1600

RAW SEQUENCE LISTINGPATENT APPLICATION: US/09/778,516A

DATE: 05/09/2002
TIME: 12:36:48

Input Set : A:\pto.amc.txt

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<110> APPLICANT: Lo, Wei-Yu
 5
         Lo, Ming Ching
 6
         Liau, Pei-Ru
 8 <120> TITLE OF INVENTION: LAC SHUTTLE VECTORS
11 <130> FILE REFERENCE: 12875-002001
13 <140> CURRENT APPLICATION NUMBER: 09/778,516A
14 <141> CURRENT FILING DATE: 2001-02-07
16 <150> PRIOR APPLICATION NUMBER: TW 89110235
17 <151> PRIOR FILING DATE: 2000-05-26
19 <160> NUMBER OF SEQ ID NOS: 6
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 8115
25 <212> TYPE: DNA
26 <213> ORGANISM: Lactobacillus plantarum
28 <400> SEQUENCE: 1
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30 attacggggt cattagttca tagcccatat atggagttcc gcgttacata acttacggta
                                                                           120
31 aatggcccgc ctggctgacc gcccaacgac ccccgcccat tgacgtcaat aatgacgtat
                                                                           180
32 gttcccatag taacgccaat agggactttc cattgacgtc aatgggtgga ctatttacgg
                                                                           240
33 taaactgccc acttggcagt acatcaagtg tatcatatgc caagtacgcc ccctattgac
                                                                           300
34 gtcaatgacg gtaaatggcc cgcctggcat tatgcccagt acatgacctt atgggacttt
                                                                           360
35 cctacttggc agtacatcta cgtattagtc atcgctatta ccatggtgat gcggttttgg
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36 cagtacatca atgggcgtgg atagcggttt gactcacggg gatttccaag tctccaccc
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37 attgacgtca atgggagttt gttttggcac caaaatcaac gggactttcc aaaatgtcgt
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38 aacaactccg ccccattgac gcaaatgggc ggtaggcgtg tacggtggga ggtctatata
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39 agcagagete tetggetaac tagagaacee actgettaet ggettatega aattaataeg
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40 actcactata gggagaccca agcttggtac cgagctcgga tccactagta acggccgcca
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41 gtgtgctgga attctgcaga tatccatcac actggcggcc gctcgagcat gcatctagag
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42 ggccctattc tatagtgtca cctaaatgct agagctcgct gatcagcctc gactgtgcct
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43 totagttgcc agccatctgt tgtttgcccc tcccccgtgc cttccttgac cctggaaggt
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44 gccactccca ctgtcctttc ctaataaaat gaggaaattg catcgcattg tctgagtagg
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45 tgtcattcta ttctgggggg tggggtgggg caggacagca agggggagga ttgggaagac
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46 aatagcagge atgetgggga tgeggtggge tetatggett etgaggegga aagaaceage
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47 tgcattaatg aatcggccaa cgcgcgggga gaggcggttt gcgtattggg cgctcttccg
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48 cttcctcgct cactgactcg ctgcgctcgg tcgttcggct gcggcgagcg gtatcagctc
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49 actcaaaggc ggtaatacgg ttatccacag aatcagggga taacgcagga aagaacatgt
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50 gagcaaaagg ccagcaaaag gccaggaacc gtaaaaaggc cgcgttgctg gcgtttttcc
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51 ataggeteeg eeeceetgae gageateaea aaaategaeg eteaagteag aggtggegaa
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52 accegacagg actataaaga taccaggegt tteceeetgg aageteeete gtgegetete
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53 ctgttccgac cctgccgctt accggatacc tgtccgcctt tctcccttcg ggaagcgtgg
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54 cgctttctca atgctcacgc tgtaggtatc tcagttcggt gtaggtcgtt cgctccaagc
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55 tgggctgtgt gcacgaacce eccgttcage ecgacegetg egeettatee ggtaactate
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Input Set : A:\pto.amc.txt

56	gtcttgagtc	caacccqqta	agacacgact	tatcgccact	ggcagcagcc	actootaaca	1680
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					gctgaagcca		1800
	• •				cgctggtagc	_	1860
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					ttaagggatt	_	1980
					aggggttccg		2040
					acggtaaatc		2100
					tttagcatta		2160
					catgtagtgc		2220
					cgcattatca		2280
					tagtgcgcat		2340
					cattatcatg		2400
					aacctgcatc		2460
					aaaaataaat		2520
	_				taaaggctct	-	2580
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					ggaggcttta		
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					-		2760
					agtgtggctg		2820
					ttggggttta		2880
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					ggcttttggt		3000
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102	! agtgtgttga	gtagtgcagt	atcttaaaat	: tttgtataat	. aggaattgaa	gttaaattag	4440
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Input Set : A:\pto.amc.txt

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			tcaacagcga				4920
	-		ccctggatga				4980
			aagaaaaaag				5040
			tcaatacaat		-	_	5100
			agggcaagtc				5160
			acggccaggg				5220
116	cgatagcaat	tttaagtcag	tcaaagtacc	cggcaacctg	gaactgcaag	gctttggcca	5280
117	gccccagtat	gtcaacgtcc	aatatccatg	ggacggcagt	gaggagattt	tcccgcccca	5340
118	aattccaagc	aaaaatccgc	tcgcttctta	tgtcagatac	tttgacctgg	atgaagcttt	5400
119	ctgggacaag	gaagtcagct	tgaagtttga	cggggcggca	acagccatct	atgtctggct	5460
120	gaacggccac	ttcgtcggct	acggggaaga	ctcctttacc	ccaagcgagt	ttatggttac	5520
121	caagttcctc	aagaaagaaa	ataaccgcct	ggcagtggct	ctctacaagt	attcttccgc	5580
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			acacggccct				6660
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			ccgggacctt				7020
			gggtaacggc				7080
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			ttgattccga				7200
			tcaagggctg				7260
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Input Set : A:\pto.amc.txt

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				gatgggggtc			7920
				tgctcaaaaa			7980
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				cattgacgtc			240
				tatcatatgc			300
	_			tatgcccagt		_	360
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				gactcacggg			480
				caaaatcaac			540
				ggtaggcgtg			600
				actgcttact			660
				cgagctcgga			720
184	atatactaca	attetacaga	tatocatoac	actggcggcc	actorageat	acgyccycca	780
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				tccccgtgc			900
				gaggaaattg			960
				caggacagca			1020
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				gaggcggttt			1140
				tcgttcggct			1200
				aatcagggga			1260
				gtaaaaaggc			1320
				aaaatcgacg			1380
				ttccccctgg			1440
				tgtccgcctt			1500
				tcagttcggt			1560
				ccgaccgctg			1620
				tatcgccact			1680
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				tctgcgctct			1800
				aacaaaccac			1860
				aaaaaggatc			1920
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Input Set : A:\pto.amc.txt

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			attaaaatcc				2160
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211	atataatcag	ctgattttac	ctcgtatttc	gccgtttctt	cggcactagc	ttgcaaagag	2400
212	tcagttcctt	tacgtttgtt	agctttaaca	gcctgcacat	gcaccacagg	ctcataatca	2460
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			tacaaacagc				2580
			ttccgttgaa				2640
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			caatcgttta				2880
			acgcaaaact				2940
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225	cgagcggcca	aactaggaat	ttgcacgtgg	gtttttattt	tgtctttctt	tcaaccaatt	3240
226	tataacccta	ataatacacc	aaaagcctat	aaaatcaatg	gatacaagcc	caattaagcc	3300
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231	ctagtctatc	aactccttaa	agcctccaag	aggggctaat	atcgcctgta	aggctcaata	3600
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			tatttttgaa				3780
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249	agcagacggt	aaggtctacg	cgccatttgc	cggtactgtc	cgccagctgg	ccaagacccg	4680
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253	cacggtaatc	gtgaccgtca	tcaacagcga	aactttcaca	aatagccaga	tgctcttgcc	4920

VERIFICATION SUMMARY

DATE: 05/09/2002

PATENT APPLICATION: US/09/778,516A

TIME: 12:36:49

Input Set : A:\pto.amc.txt



1636

RAW SEQUENCE LISTING DATE: 05/09/2002
PATENT APPLICATION: US/09/778,516A TIME: 11:48:42

Input Set : A:\12875-002001.txt

Output Set: N:\CRF3\05092002\1778516A.raw

Does Not Comply
Corrected Diskette Needed

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4 <110> APPLICANT: Lo, Wei-Yu
5 Lo, Ming Ching
6 Liau, Pei-Ru
8 <120> TITLE OF INVENTION: LAC SHUTTLE VECTORS
11 <130> FILE REFERENCE: 12875-002001
13 <140> CURRENT APPLICATION NUMBER: 09/778,516A
14 <141> CURRENT FILING DATE: 2001-02-07
16 <150> PRIOR APPLICATION NUMBER: TW 89110235
17 <151> PRIOR FILING DATE: 2000-05-26
19 <160> NUMBER OF SEQ ID NOS: 6
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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ERRORED SEQUENCES

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Input Set : A:\12875-002001.txt

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			-	_	-	•	3360
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			accccaaaaa				3420
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			taatgcgcac				4020
			ctacatgata				4080
			tgctaaaacc				4140
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/778,516A

DATE: 05/09/2002 TIME: 11:48:42

Input Set : A:\12875-002001.txt

243	tgcatgaaga	atctgcttag	ggttaggcgt	tttgcgctgc	ttcgttagaa	gcaaactaag	4380
				tttgtataat		-	4440
				attacatgat			4500
				ggtctttgca			4560
				aaagttaggc			4620
				cggtactgtc			4680
				ggtcttggtc			4740
				cagctatgtt			4800
				cccggcgatc			4860
				aactttcaca			4920
				tgtattcaag			4980
				agttgaccag			5040
				tccccgcac			5100
				cagtttagtg			5160
257				accagtcaac			5220
				cggcaacctg			5280
				ggacggcagt			5340
				tgtcagatac			5400
				cggggcggca			5460
				ctcctttacc			5520
				ggcagtggct			5580
				catgtctggt			5640
				ccttaagctt			5700
				caatattgcc			5760
				tgacttggtt			5820
				tgatttgcca			5880
				tttataccag			5940
				tgaactaaaa			6000
				ccggcacgaa			6060
				catcaagacc			6120
				gtccctcttt			6180
				ggaaagccac			6240
				aggcgatgac			6300
			_	ggacaagaac			6360
				tgtctttgcc	_	-	6420
				tgaaggggtg			6480
				tgctccggcc			6540
				agttgaatac			6600
				ggaaaaatac			6660
				aaaagacggg			6720
				ctgcgggaac ggccctttac			6780 6840
				caatttattt gttgacctac			6900 6960
				tgccctgcct			7020
				ccacttaaaa			7080 7140
				agtageteaa			
				ctacaaccta			7200
231	CCAAACCCCC	Licitodaayy	ccaayyyccy	gccggtttcc	cicaagiaig	ccyylaygya	7260

30

RAW SEQUENCE LISTING

315 aagctcatga ttggcagcca gtctccgggc

E--> 317 <210> SEQ ID NO: 4

PATENT APPLICATION: US/09/778,516A

DATE: 05/09/2002 TIME: 11:48:42

9///8,516A TIME: 11:4

Input Set : A:\12875-002001.txt

	292	atacttgaag	cggctgccgg	aatttacctt	ctggcgggcc	ctgacggaca	acgaccgggg	7320
	293	agctggttac	ggctatgatc	tggcccggtg	ggaaaatgcc	ggcaagtatg	cccgcttgaa	7380
	294	agacatcagc	tgcgaggtca	aggaagactc	cgttttggtc	aagactgcct	ttacgttgcc	7440
	295	tgtcgcctta	aagggtgatt	taaccgtgac	ctatgaagtc	gatggacggg	gcaagattgc	7500
	296	tgtaacagct	gacttcccag	gcgcggaaga	agctggtctc	ttgccagcct	ttggcttgaa	7560
	297	cctggccctg	ccaaaagaac	tgaccgatta	ccgctactat	ggtctgggac	ctaatgagag	7620
	298	ctacccagac	cgcttggaag	gtaattacct	gggcatctac	cagggagcgg	taaaaaagaa	7680
	299	ctttagccca	tatcgtccgc	aggaaacggg	caaccggagc	aaggttcgct	ggtaccagct	7740
	300	ctttgatgaa	aagggcggct	tggaatttac	ggccaatggg	gcagacttga	acttgtctgc	7800
	301	tttgccatat	tctgccgccc	aaattgaagc	agcggaccac	gcttttgaac	tgactaacaa	7860
	302	ttacacttgg	gttagagcct	taagcgccca	gatgggggtc	ggcggggatg	actcctgggg	7920 ×
			cacccggaat					7980 Losel
	304	gattcagccc	cttttactaa	aataaatgct	acaattgact	taacaggatg	aaattttagt	8040 / havd.
	305	aaaagcaaag	cgagtgagga	agatggcaac	gatcagagaa	gtgccaaggc	agccggcgtg	8100 return
E>		tcgctagcga						8115<210> 3
	307	<211> LENG!	TH: 30					
	308	<212> TYPE	: DNA					
	309	<213> ORGAI	NISM: Artifi	icial Seque	nce			
	311	<220> FEAT	URE:					
	312	<223> OTHE	R INFORMATIO	ON: oligonu	cleotide for	r PCR		
W>	314	<210> SEQ :	ID NO:					
E>	314	<400> SEQUI	ENCE: 3					

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/778,516A

DATE: 05/09/2002 TIME: 11:48:43

Input Set : A:\12875-002001.txt

Output Set: N:\CRF3\05092002\1778516A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:2; Line(s) 306

Skipped Sequences(NEW RULES):

Sequence(s)__missing. If intentional, please use the following format for
each skipped sequence.
<210> sequence id number
<400> sequence id number

Seq#:3

000